	Туре	L #	Hits	Search Text	DBs	Time Stamp
1	BRS	L1	1077	polyimide adj coating	USPAT	2003/04/17 14:13
2	BRS	L2	1700	210/198.2.ccls.	i	2003/04/17 14:13
3	BRS	L3	15	1 and 2	USPAT	2003/04/17 14:13

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1		☒	US 5938919	A	19990817	12
2		⊠	US 4293415	A	19811006	6
3		×	US 5135627	А	19920804	9

	Title	Current OR	Current XRef
1	Fused silica capillary columns protected by flexible shielding	210/198.2	210/656; 96/101
2	Silica chromatographic column	210/198.2	138/140; 138/141; 138/143; 138/145; 138/146; 138/177; 65/DIG.8; 96/101
3	Mosaic microcolumns, slabs, and separation media for electrophoresis and chromatography	204/455	204/458; 204/466; 204/470; 210/198.2; 210/635; 428/327

	Retrieval Classif	Inventor	s	U	P	2	3	4	5
1		Najafabadi, Bijan Modrek	Ø						
2		Bente, III, Paul F. et al.	⊠						
3		Soane, David S.	⊠						

	I	Image Doc. Displayed		
1	US	5938919		
2	US	4293415	·	
3	US	5135627		

L	Hits	Search Text	DB	Time stamp
Number				
1	1077	polyimide adj coating	USPAT	2003/04/17 14:13
2	1700	210/198.2.ccls.	USPAT	2003/04/17 14:13
3	15	(polyimide adj coating) and 210/198.2.ccls.	USPAT	2003/04/17 14:13

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				14:13
2	1700	210/198.2.ccls.	USPAT	2003/04/17
				14:13
3	15	(polyimide adj coating) and	USPAT	2003/04/17
-		210/198.2.ccls.	·	14:13

Current US Original Classification - CCOR (1): 210/198.2

US-PAT-NO:

5938919

DOCUMENT-IDENTIFIER: US 5938919 A

TITLE:

Fused silica capillary columns

protected by flexible

shielding

DATE-ISSUED:

August 17, 1999

US-CL-CURRENT:

210/198.2, 210/656 , 96/101

APPL-NO:

08/ 859349

DATE FILED:

May 20, 1997

PARENT-CASE:

This application is a continuation of U.S. patent application Ser. No. 08/577,270, filed Dec. 22, 1995, now abandoned.

----- KWIC -----

Detailed Description Text - DETX (23):

In the shielded column 110, the capillary 112 advantageously has a polyimide coating because an uncoated capillary 112' can easily break as it is slip-fitted into the shield tubing 114. A commercially available capillary 112 is coated with a polyimide layer that covers the external surface of the capillary 112 and has a thickness of about 1 .mu.m. however, feasible to use an uncoated capillary 112' if the shield tubing 114 is molded onto the uncoated capillary 112', or if the tubing 114 and uncoated capillary 112' are extruded at the same time. There is substantially less handling of the

04/17/2003, EAST Version: 1.03.0002

capillary 112' involved in molding or simultaneous extrusion than in producing a slip fit.

Current US Original Classification - CCOR (1):

210/198.2

4293415 US-PAT-NO:

DOCUMENT-IDENTIFIER: US 4293415 A

TITLE: Silica chromatographic column

DATE-ISSUED: October 6, 1981

210/198.2, 138/140 , 138/141 , 138/143 , US-CL-CURRENT:

138/145 , 138/146

, 138/177 , 65/DIG.8 , 96/101

06/ 034103 APPL-NO:

DATE FILED: April 27, 1979

----- KWIC -----

Detailed Description Text - DETX (5):

The inner diameter of the silica tubes T is determined by chromatographic

considerations and will generally be between 0.1 mm. 0.4 mm. The outer

diameter should be sufficiently small to provide the desired flexibility and

consequent ruggedness without making the wall of the tube so thin that it will

be crushed in use. Outer diameters between 0.15 mm. 2.0 mm. have been

found satisfactory. Polyimide coatings P having a thickness of approximately

0.05 mm. and silicon nitride coatings SN having a thickness of approximately

20 nanometers have been found satisfactory, but considerable latitude is

permissible. A metal coating of approximately 0.025 mm.

is useful. If the

column is to be used at lower temperatures such as

250.degree. C., a single

coating of silicone rubber or the equivalent is satisfactory.

04/17/2003, EAST Version: 1.03.0002

US-PAT-NO: 5135627

DOCUMENT-IDENTIFIER: US 5135627 A

TITLE: Mosaic microcolumns, slabs, and

separation media for

electrophoresis and chromatography

DATE-ISSUED: August 4, 1992

US-CL-CURRENT: 204/455, 204/458, 204/466, 204/470,

210/198.2 , 210/635

, 428/327

APPL-NO: 07/ 597528

DATE FILED: October 15, 1990

----- KWIC -----

Brief Summary Text - BSTX (10):

Recently, microcapillary tubes have been developed for use in microcapillary gel electrophoresis (high-performance capillary electrophoresis, HPCE). These tubes, generally formed of fused silica with an outer polyimide coating, wall thickness in the range of 25 to 40 microns and inner diameter in the range of 25 to 100 microns, are filled with a polyacrylamide gel, the ends placed in an appropriate buffer, and an electric field applied to the gel. The advantage of the HPCE is that the heat resulting from the applied electrical field is efficiently removed due to the high surface area, so a higher current can be applied, thereby decreasing the time required to achieve the desired separation.

Current US Cross Reference Classification - CCXR (4):

210/198.2